

Appl. No. : 09/898,990  
Filed : July 3, 2001

**AMENDMENTS TO THE CLAIMS**

**IN THE CLAIMS:**

Please amend Claims 10 and 22 as follows:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Previously Presented) A disposable optical probe for use with a physiological measurement device, said optical probe comprising:

at least one light emitter adapted to transmit optical radiation into a first side of a medium;

a detector adapted to receive an attenuated portion of the optical radiation after being transmitted through the medium to a second side;

a disposable substrate carrying the at least one emitter and detector; and

an optical obstruction between the at least one emitter and said detector which reduces piping of the optical radiation between said at least one emitter and said detector without transmission through the medium, when said optical probe is affixed to a portion of a patient.

9. (Previously Presented) The disposable optical probe of claim 8, wherein said optical obstruction comprises an aperture in said disposable substrate between the at least one emitter and the detector.

10. (Currently Amended) A disposable optical sensor for use in a physiological monitoring comprising;

at least one emitter which emits light;

a detector ~~which receives adapted to receive~~ the light after non-reflective transmission through tissue of a patient;

a disposable substrate ~~which positions adapted to position~~ said emitter and said detector proximate to said tissue; and

Appl. No. : 09/898,990  
Filed : July 3, 2001

an optical barrier between the at least one emitter and the detector to substantially obstruct the emitted light from transmitting along the disposable substrate between said at least one emitter and said detector without having passed through the tissue of the patient when said disposable optical sensor is affixed to a patient.

11. (Previously Presented) The disposable optical sensor of Claim 10, wherein said optical barrier comprises an aperture in said disposable substrate between the at least one emitter and the detector.

12. (Previously Presented) The disposable optical probe of Claim 8, wherein said optical obstruction comprises an opaque shield having at least one surface between the at least one emitter and the detector, the at least one surface reducing the piping of the optical radiation.

13. (Previously Presented) The disposable optical probe of Claim 12, wherein the opaque shield forms a receptacle adapted to receive the detector.

14. (Previously Presented) The disposable optical probe of Claim 13, wherein the receptacle is rectangular.

15. (Previously Presented) The disposable optical probe of Claim 12, wherein the opaque shield comprises a opaque cover.

16. (Previously Presented) The disposable optical probe of Claim 15, wherein the opaque cover covers one of the at least one emitter and the detector.

17. (Previously Presented) The disposable optical sensor of Claim 10, wherein the optical barrier comprises an opaque material.

18. (Previously Presented) The disposable optical sensor of Claim 10, wherein the optical barrier comprises a cavity adapted to receive the detector.

19. (Previously Presented) The disposable optical sensor of Claim 18, wherein the cavity is rectangular.

20. (Previously Presented) The disposable optical sensor of Claim 10, wherein the optical barrier comprises a cover over one of the at least one emitter and the detector.

21. (Previously Presented) A method of reducing light from at least one emitter which reaches a detector without non-reflectively passing through a medium, the method comprising:

Appl. No. : 09/898,990  
Filed : July 3, 2001

providing a disposable tape adapted to position at least one emitter and a detector on opposite sides of a measurement site such that light from the at least one emitter is transmitted through the measurement site to the detector; and

including a light piping barrier with the disposable tape adapted to reduce the light from the at least one emitter which reaches the detector without first being transmitted through the measurement site.

22. (Currently Amended) The method of Claim 21, wherein ~~the step of~~ adding the light piping barrier comprises forming the light piping barrier from the disposable tape.

23. (Previously Presented) The method of Claim 21, wherein the light piping barrier comprises an opaque material.

24. (Previously Presented) The method of Claim 21, further comprising receiving the detector in a cavity of the light piping barrier.

25. (Previously Presented) The method of Claim 24, wherein the cavity is rectangular.

26. (Previously Presented) The method of Claim 21, further comprising covering one of the at least one emitter and the detector with the light piping barrier.